

What is claimed is:

1. A method of printing a dyed polyester fabric with a plastisol printing composition substantially without the printing composition dissolving the dye of the fabric, the method comprising:

- (a) providing a web of textile fabric to be printed, the fabric containing dyed polyester fibers as a significant proportion of the content of the fabric;
- (b) selecting a surface area of the fabric to be printed with a plastisol printing composition;
- (c) applying to at least the selected area of the fabric a blocking composition to form a printing receptor barrier over the selected area; and
- (d) imprinting the plastisol printing composition in a desired image or pattern onto the barrier in the selected area of the fabric;

wherein the barrier substantially separates the fabric and the plastisol printing composition from one another to prevent chemical interaction between the solvent in the printing composition and the dye in the polyester fibers of the fabric and thereby to prevent undesired discoloration of the printing composition.

2. A method of printing a dyed polyester fabric with a plastisol printing composition according to claim 1, and further comprising curing the blocking composition after being applied to the selected area of the fabric and before imprinting the selected area of the fabric with the plastisol printing composition.

3. A method of printing a dyed polyester fabric with a plastisol printing composition according to claim 1, and further comprising selecting the blocking composition from the group consisting essentially of aqueous born epoxies, solvent borne epoxies, high molecular weight cross-linking acrylics, urethanes, high molecular weight silicones, fluorocarbons, thermoplastic resins, and thermosetting resins.

4. A method of printing a dyed polyester fabric with a plastisol printing composition according to claim 1, wherein the applying of the blocking composition to the selected area of the fabric comprises applying the blocking composition to substantially the entire web of the textile fabric.

5. A method of printing a dyed polyester fabric with a plastisol printing composition according to claim 1, wherein the applying of the blocking composition to the selected area of the fabric comprises applying the blocking composition only in a localized area of the fabric.

6. A method of printing a dyed polyester fabric with a plastisol printing composition according to claim 5, wherein applying of the blocking composition to the selected area of the fabric is in substantially the same pattern or image as the desired pattern or image of the plastisol printing composition.

7. A method of printing a dyed polyester fabric with a plastisol printing composition according to claim 6, wherein the imprinting of the plastisol printing composition comprises imprinting the desired image or pattern in registry with the image or pattern of the blocking composition.



13. A dyed polyester fabric printed with a plastisol printing composition substantially without the printing composition dissolving the dye of the fabric, the fabric comprising:

- (a) a web of textile fabric containing dyed polyester fibers as a significant proportion of the content of the fabric;
- (b) a blocking composition applied to at least a selected areas of the fabric and forming a printing receptor barrier over the selected area; and
- (c) a plastisol printing composition imprinted in a desired image or pattern onto the barrier in the selected areas of the fabric;

wherein the barrier substantially separates the fabric and the plastisol printing composition from one another to prevent chemical interaction between the solvent in the printing composition and the dye in the polyester fibers of the fabric and thereby to prevent undesired discoloration of the printing composition.

14. A dyed polyester fabric printed with a plastisol printing composition according to claim 13, wherein the blocking composition is selected from the group consisting essentially of aqueous borne epoxies, solvent borne epoxies, high molecular weight cross-linking acrylics, urethanes, high molecular weight silicones, fluorocarbons, thermoplastic resins, and thermosetting resins.

15. A method of printing a dyed polyester fabric with a plastisol printing composition according to claim 13, wherein the blocking composition is applied to substantially the entire web of the textile fabric.

16. A method of printing a dyed polyester fabric with a plastisol printing composition according to claim 13, wherein the blocking composition is applied only in a localized area of the fabric.

17. A method of printing a dyed polyester fabric with a plastisol printing composition according to claim 16, wherein the blocking composition is applied in substantially the same pattern or image as the desired pattern or image of the plastisol printing composition.

18. A method of printing a dyed polyester fabric with a plastisol printing composition according to claim 17, wherein the desired image or pattern of the plastisol printing composition is imprinted in registry with the image or pattern of the blocking composition.

19. A method of printing a dyed polyester fabric with a plastisol printing composition according to claim 13, wherein the blocking composition is applied in substantially the same pattern or image as the desired pattern or image of the plastisol printing composition.

20. A method of printing a dyed polyester fabric with a plastisol printing composition according to claim 13, wherein the web of textile fabric comprises yarns containing polyester fibers intermeshed in a fabric structure defining interstices between the intermeshed yarns, and the yarns and the polyester fibers thereof are coated with the blocking composition.

21. A method of printing a dyed polyester fabric with a plastisol printing composition according to claim 13, wherein the applying of the blocking composition comprises padding, printing, spraying, foaming, or immersing the fabric with the blocking composition.

22. A method of printing a dyed polyester fabric with a plastisol printing composition according to claim 13, wherein the plastisol printing composition is screen printed or jet printed onto the fabric.